

IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application:

Claims 1-9 (Canceled).

Claim 10 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 1~~, through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;

a blending mixer to mix the crushed resin waste material and the crushed wood waste material to prepare a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claim 11 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 2,~~ through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;

a third crushing device to further crush the crushed wood waste material crushed by the second crushing device, to produce fine chips;

a grinding device to grind the fine chips into a fine powder;

a blending mixer to mix the fine powder of the wood waste material and the crushed resin waste material to produce a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claim 12 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 3,~~ through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;  
at least one member selected from a group consisting of a magnet to separate a metal  
which is attracted to the magnet, an eddy current separator device to separate a metal which is  
not attracted to the magnet but have conductivity, and a gravity separator to separate a  
substance that is not separated by the magnet and the eddy current separator device;

a blending mixer to mix the crushed resin waste material and the crushed wood waste  
material that is separated by said at least one member to prepare a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claim 13 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 4,~~ through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;

a magnet to separate a metal which is attracted to the magnet;

an eddy current separator device to separate a metal which is not attracted to the magnet but have conductivity;

a gravity separator to separate a substance that is not separated by the magnet and the eddy current separator device;

a blending mixer to mix the crushed resin waste material and the crushed wood waste material that is separated by the magnet, the eddy current separator device, and the gravity separator, to prepare a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claim 14 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 5,~~ through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;

at least one member selected from the group consisting of a magnet to separate a metal which is attracted to the magnet, an eddy current separator device to separate a metal

which is not attracted to the magnet but have conductivity, and a gravity separator to separate a substance that is not separated by the magnet and the eddy current separator device;

a third crushing device to further crush the crushed waste wood material crushed by the second crushing device and is separated by at least one among the magnet, the eddy current separator device, and the gravity separator, to produce fine chips;

a grinding device to grind the fine chips into a fine powder;

a blending mixer to mix the fine powder of the wood waste material and the crushed resin waste material to produce a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claim 15 (Currently Amended) A manufacturing apparatus to manufacture ~~the a~~ cylindrical main body of the wood-like molded product ~~as claimed in claim 8,~~ through extrusion molding, the apparatus comprising:

a first crushing device to crush a resin waste material;

a second crushing device to crush a wood waste material;

a magnet to separate a metal which is attracted to the magnet;

an eddy current separator device to separate a metal which is not attracted to the magnet but have conductivity;

a gravity separator to separate a substance that is not separated by the magnet and the eddy current separator device;

a third crushing device to further crush the crushed wood waste material crushed by the second crushing device and is separated by the magnet, the eddy current separator device, and the gravity separator, to produce fine chips;

a grinding device to grind the fine chips into a fine powder;

a blending mixer to mix the fine powder of the wood waste material and the crushed resin waste material to produce a mixed material;

an extrusion molding device to heat and melt the mixed material, and mold the mixed material into a cylindrical shape through extrusion molding;

a sizer member which includes an opening portion ~~of which~~ having an inner diameter which is substantially the same as an outer diameter of an extrusion mold product in the cylindrical shape produced by the extrusion molding device through the extrusion molding, and adjusts a sectional shape and a dimension of the extrusion mold product by inserting the extrusion mold product into the opening portion; and

a cutting device to cut the extrusion mold product, of which the sectional shape and the dimension are adjusted by the sizer member, into a predetermined length, thus forming the cylindrical main body.

Claims 16-23 (Canceled).